

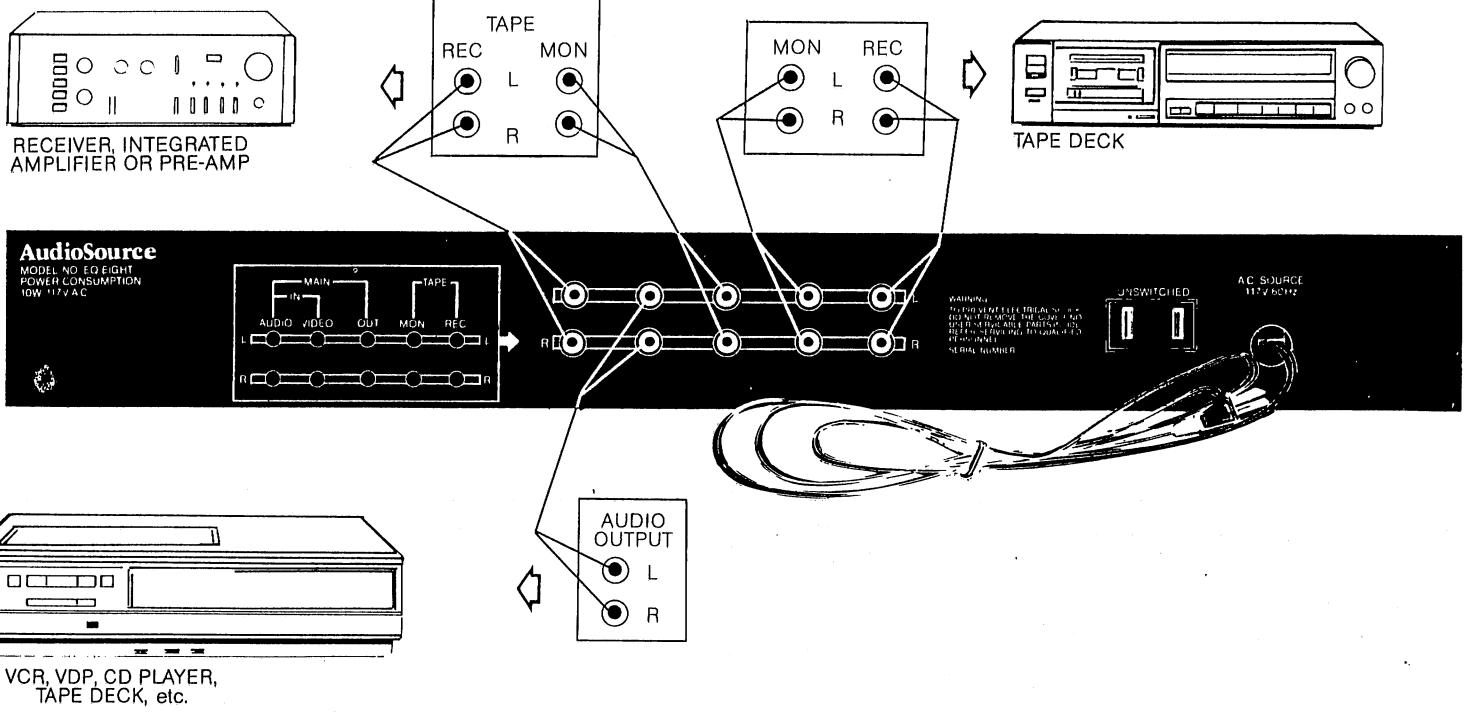
Owner's Manual



EQ-EIGHT MANUAL

Ten-Band Stereo Graphic Equalizer with Spectrum Analyzer Display

AudioSource



Thank you for choosing this fine AudioSource EQ-EIGHT, which will provide you with a remarkable degree of control over your stereo's sound, far more than that available from simple tone controls! With the EQ-EIGHT, you can rapidly make very significant improvements in the sound of your stereo system, enhance the sound of older recordings, alter instrumental and vocal balances to your own taste as though you were the recording engineer, make custom-equalized recordings, and a multitude of other uses! Familiarize yourself with the EQ-EIGHT's controls by reading this manual, and then you'll discover a whole new world of control over the sound you listen to, right at your fingertips!

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

PRECAUTIONS – Please follow these simple steps when operating the EQ-EIGHT or any electrical device.

POWER PLUG – Always grasp the plug when removing it from a socket. Never pull on the wires. Never remove or install the plug with wet hands, or electrical shock could occur. If you are not planning to use the unit for an extended length of time, it is wise to unplug it.

REMOVAL OF CASE – There are no user-serviceable parts inside the EQ-EIGHT, so you should never remove the case of the unit, as risk of shock exists. Refer all servicing to qualified service personnel.

INSTALLATION PRECAUTIONS – Avoid installing your EQ-EIGHT, or any electrical device, in areas exposed to direct sunlight, near heat-radiating appliances, exposed to moisture or humidity, exposed to dust and dirt, in areas of poor ventilation, directly on top of power amplifiers and other

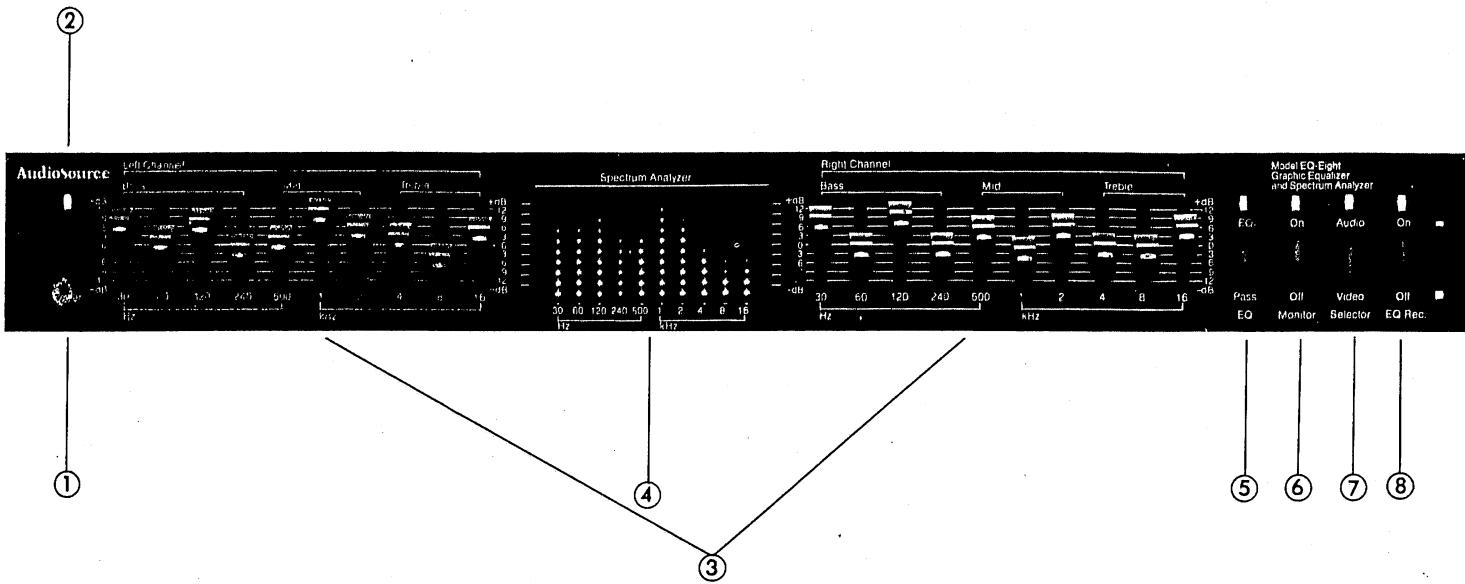
heat-producing components, or on surfaces which are unstable or prone to vibrations.

CLEANING – Wipe the faceplate and case of the EQ-EIGHT periodically with a soft cloth. Avoid using any thinners or volatile liquids in cleaning the EQ-EIGHT.

INSTALLATION AND CONNECTION

The EQ-EIGHT should be connected through the Tape Monitor loop of your receiver, integrated amplifier, or preamplifier. Some units may also have connections labelled "External Processors," and you may use this loop instead. The EQ-EIGHT has its own tape monitor circuit, so that any tape deck it may displace can still be utilized.

When making or changing connections on the EQ-EIGHT, it is always wise to unplug it and any other units you are working with. If this is not conveniently done, at least make sure these units are turned off at their power switches. Connect the **TAPE OUT** or **TAPE RECORD** jacks (different components use different terminology) on the back of your receiver/integrated amplifier/preamplifier to the **MAIN IN AUDIO** jacks on the back of the EQ-EIGHT. Similarly connect the **TAPE IN** or **TAPE MONITOR** jacks on the receiver, etc., to the **MAIN OUT** jacks on the EQ-EIGHT. If you wish to connect a tape deck to the EQ-EIGHT, connect the **INPUT** or **RECORD** jacks on the tape deck to the **TAPE REC** jacks on the EQ-EIGHT, and the **OUTPUT** or **MONITOR** jacks on the tape deck to the **TAPE MON** jacks on the EQ-EIGHT. You may use the **MAIN IN VIDEO** jacks on the back of the EQ-EIGHT to connect the audio output of a VCR to your stereo system, or as a spare connection for any high-output source, such as another tape deck or Compact Disc Player. After all connections have been made, plug the power cord into any convenient 120 Volt AC outlet.



FUNCTIONS AND OPERATION

1. POWER SWITCH – When pressed **IN** once, POWER LED (2) will light, and the EQ-EIGHT is activated.
2. POWER LED – Illuminates when POWER SWITCH (1) is pressed **IN**, indicating the EQ-EIGHT is activated.
3. GRAPHIC EQUALIZER – Ten sliders for each of left and right channels are provided. Each slider controls one of the octaves in the audible frequency range, as labelled, and allows adjustment of up to $\pm 12\text{dB}$ each. This provides extensive control over the sound of your system, compensating for room and furnishings effects on sound, improving the frequency response of your system, and allowing you to even make custom-equalized recordings with the tape deck connected to the EQ-EIGHT. Due to the nature of all equalizer sliders, you will find that movement of any given slider will also have some effect on the setting of the sliders adjacent to either side of it.
- NOTE: Improvement of sound quality, particularly in the extreme bass and treble regions, is completely dependent upon the quality of the other equipment you are using with the EQ-EIGHT. Speaker's frequency response range and available amplifier power place the greatest limitations on achieving flat frequency response. If you detect any distortion in the bass or treble regions while boosting the EQ-EIGHT's equalizer sliders in these areas, back-off immediately, as you are probably overtaxing either your amplifier or your speakers.
4. SPECTRUM ANALYZER – Divided into ten columns of LEDs which correspond to each octave controlled by your equalizer sliders, the SPECTRUM ANALYZER provides a visual display of the relative signal levels in each of these octaves. You can use this display to assist you in setting your equalizer sliders, as well as to obtain information about the frequency content of program material as you play it through the EQ-EIGHT. SPECTRUM ANALYZER of the EQ-EIGHT is not designed as a pre-

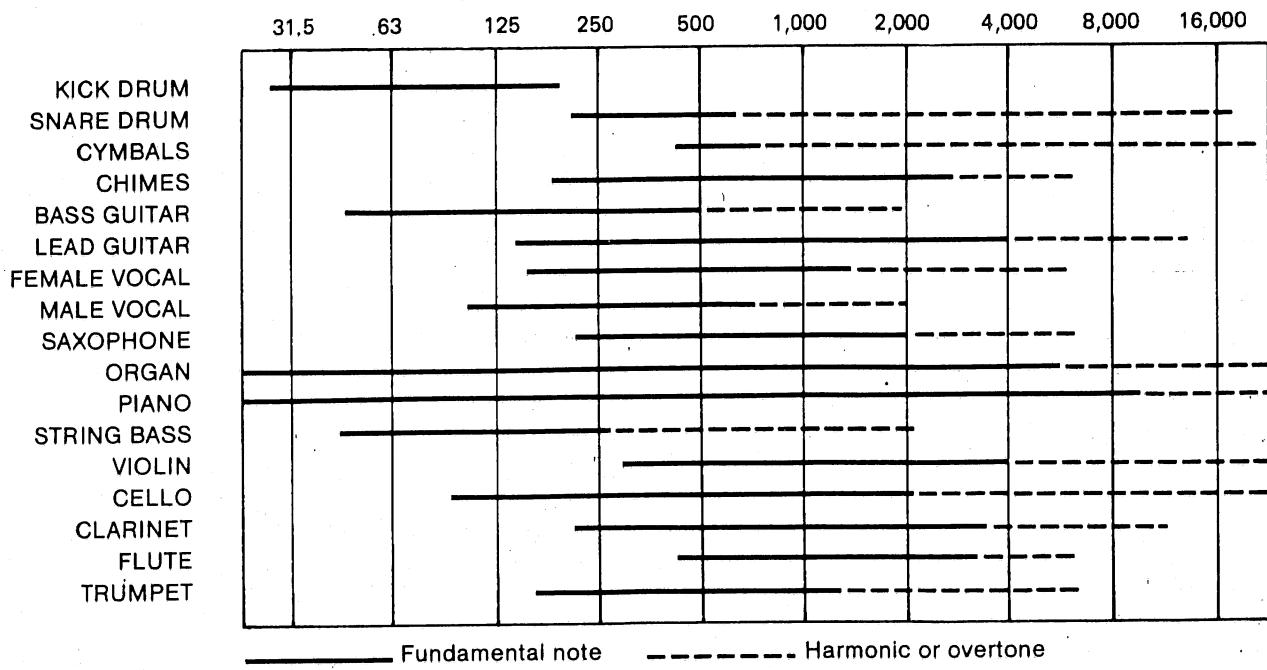
cision calibrated display. If you wish to equalize your audio system to flat frequency response, the most recommended method is to use a professional-grade Real-Time Analyzer, such as the AudioSource RTA-ONE, along with a source of Pink Noise (like the AudioSource PNG-ONE Pink Noise Generator, or any of a number of test records available containing Pink Noise). Follow the instructions provided with such instruments to achieve precise equalization.

5. EQ/PASS SWITCH – When pressed **IN** to the **EQ** position, the equalizer sliders (3) are activated, both for playback equalization while monitoring a source, as well as for recording equalization if you are dubbing (see instructions for the EQ REC. SWITCH (8) below.)
6. TAPE MONITOR ON/OFF SWITCH – If you have connected a tape deck to the EQ-EIGHT, the signal from this tape deck may be monitored by pressing this switch **IN** to the **ON** position. When this switch is **OUT** in the **OFF** position, this signal will be bypassed.
7. AUDIO/VIDEO SELECTOR SWITCH – When pressed **IN** to the **AUDIO** position, the signal connected to the MAIN IN AUDIO connections on the rear panel of the EQ-EIGHT will be selected. When **OUT** in the **VIDEO** position, the signal connected to the MAIN IN VIDEO connections is selected.
8. EQ REC ON/OFF SWITCH – When pressed **IN** to the **ON** position, the signal passing through the TAPE REC jacks on the rear panel of the EQ-EIGHT will be equalized according to the settings of the GRAPHIC EQUALIZER sliders (3). This allows you to create custom-equalized recordings on the tape deck connected to the EQ-EIGHT, enabling you to enhance the sound of a deficient recording, alter the sound to your personal preference, or make tapes for specialized applications, such as for playing through car audio systems. When this switch is **OUT** in the **OFF** position, the signal through the TAPE REC jacks is not equalized.

Specifications

Frequency Response	5Hz - 100kHz ± 1dB
Harmonic Distortion	0.03% of nominal output
Signal-to-Noise Ratio	-80dB
Input Impedance	100K Ohms
Output Impedance	600 Ohms
Load Impedance	10K Ohms or more
Inputs	Audio, Video, Tape
Outputs	Main Out, Tape Out
Control Center Points	30Hz, 60Hz, 120Hz, 240Hz, 500Hz, 1kHz, 2kHz, 4kHz, 8kHz, 16kHz
Control Range	± 12dB
Dimensions	16½" (W) x 2¾" (H) x 7½" (D)
Weight (without packaging)	5 lbs.
Power Consumption	6 watts

The chart below will help you identify which sliders on the GRAPHIC EQUALIZER Section (3) will most affect the sound and balance of particular instruments by illustrating where they lie in the overall sonic spectrum.



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